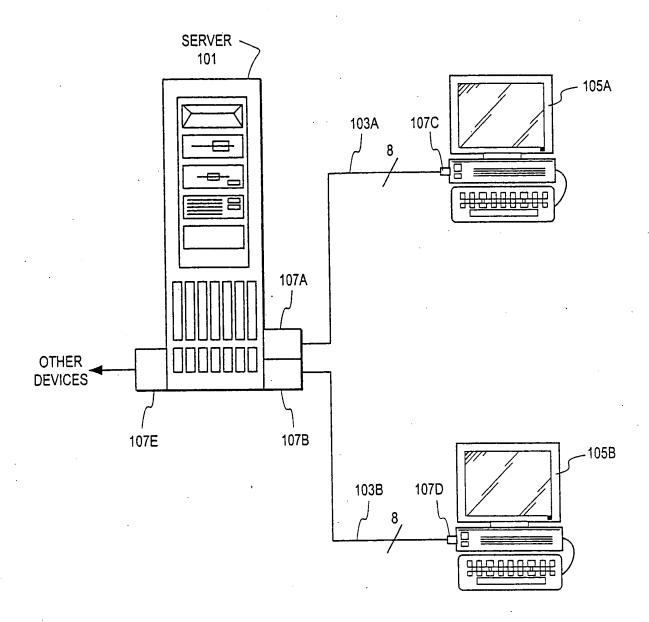
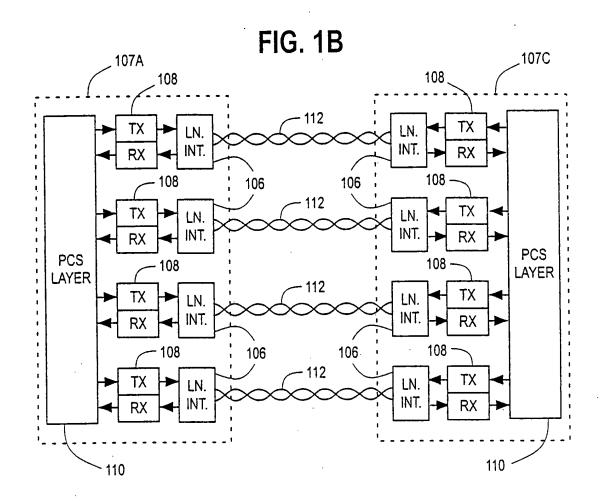
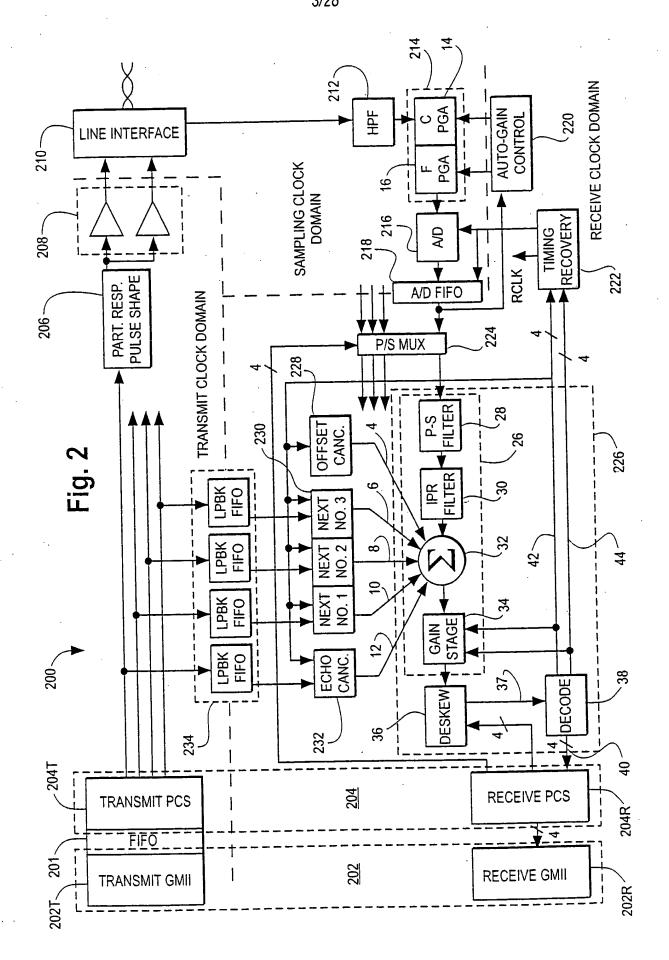
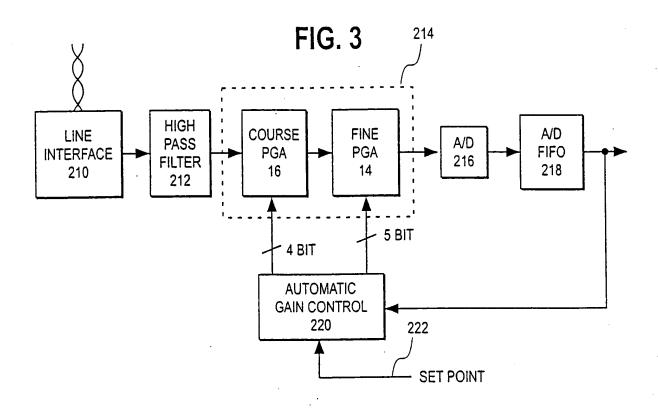
FIG. 1A

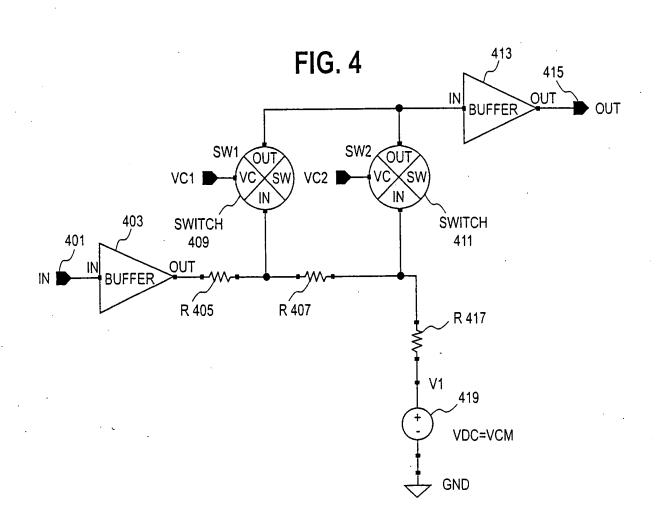


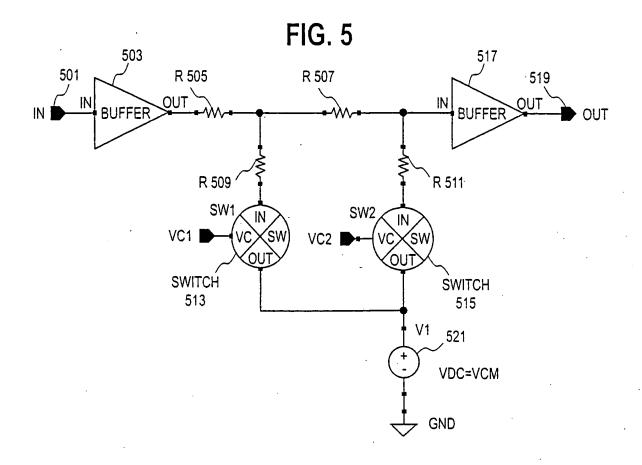


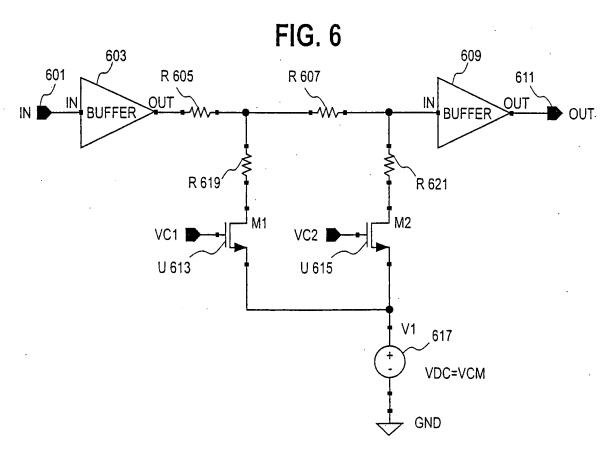


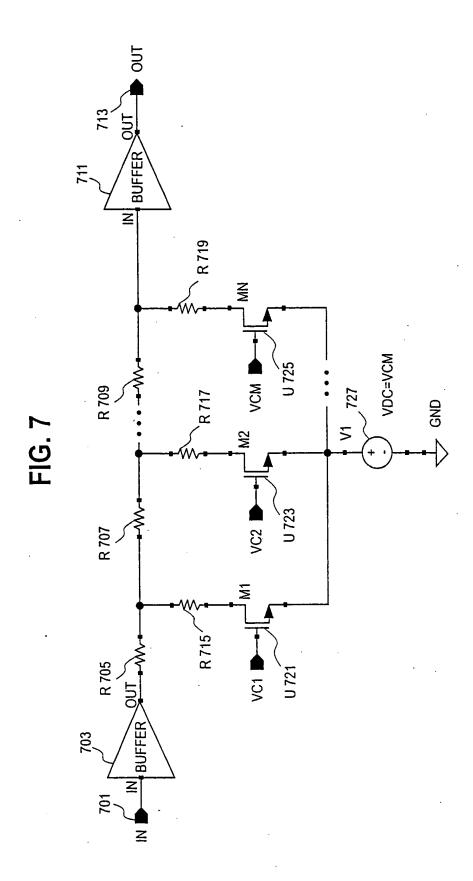
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CONF. NO. ; DOCKET NO. 13432US04 DOCKET NO. 13432US04 ATTORNEY: JAW, PHONE: 312-775-8000 OUT 7/28 BUFFER Z **≶**R2N M2N VDC=VCM 819 GND J SLICES R. R 809 R 815' N STAGES PER SLICE R 823 R 807 M11 VC12 R 813' R 811 U 819 R 805 U 817 817 BUFFER 803

FIG. 9

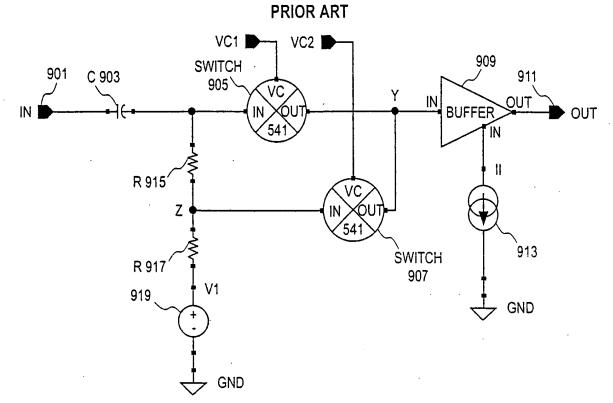


FIG.10 PRIOR ART

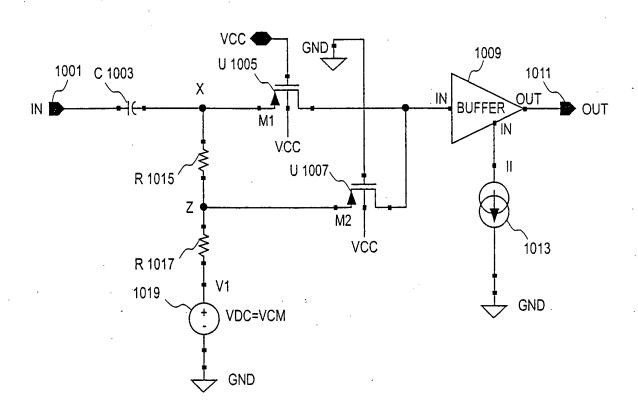


FIG. 11

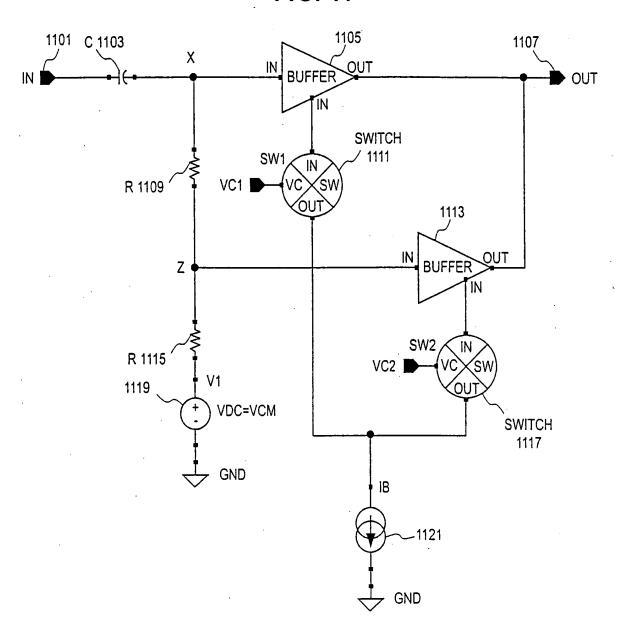


FIG. 12

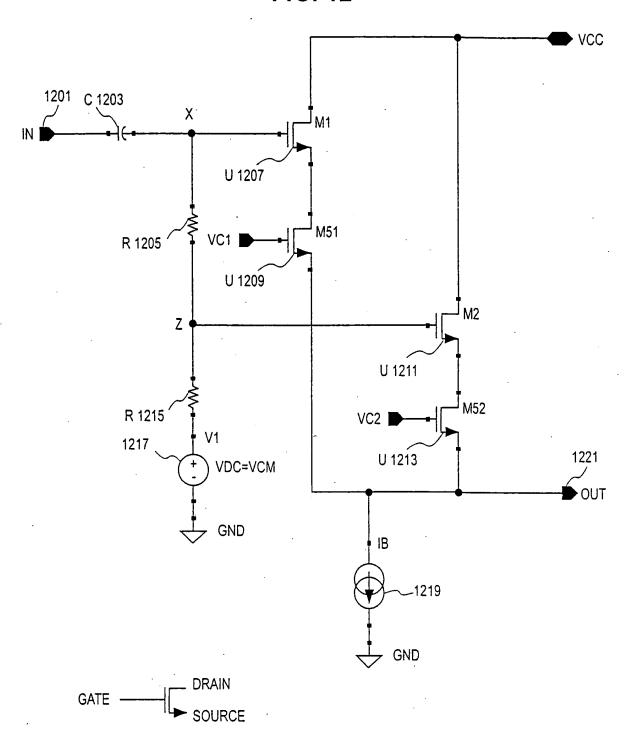
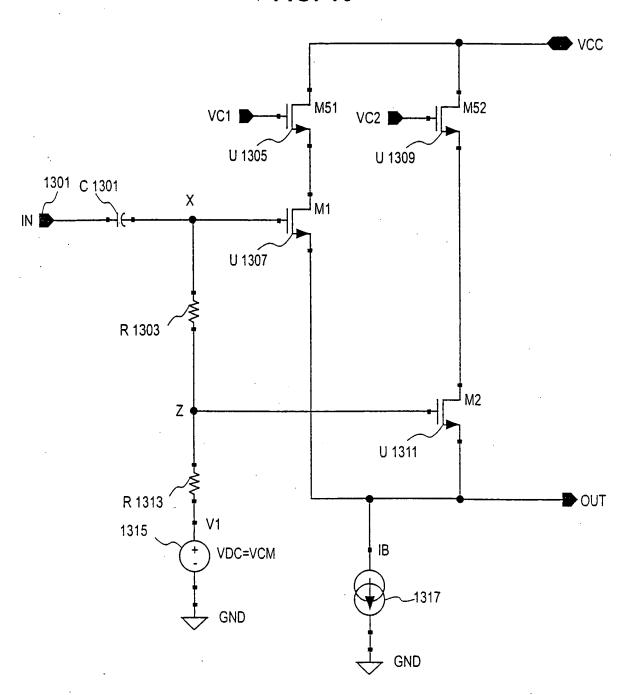
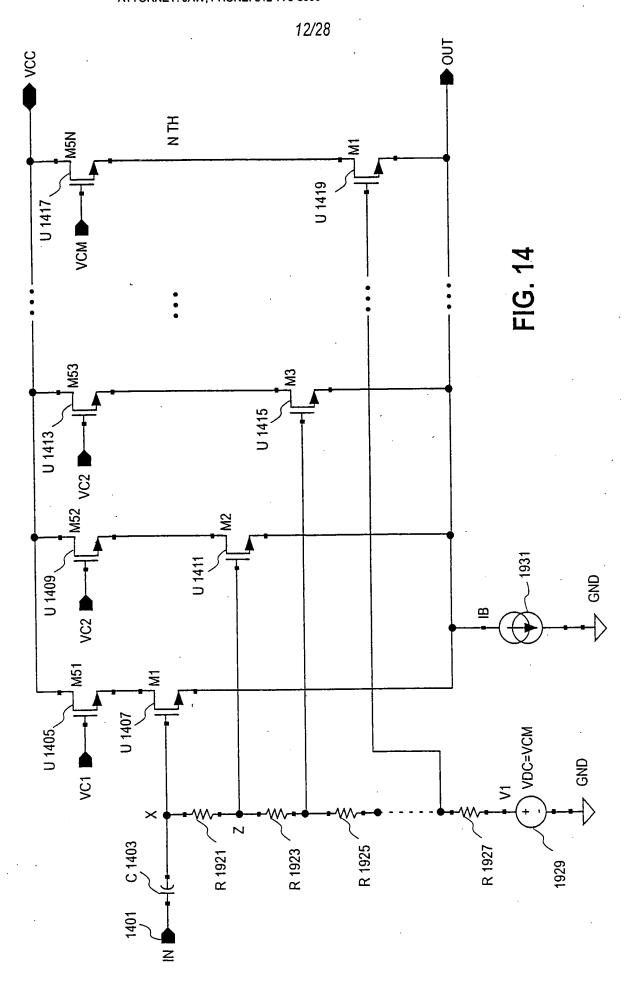
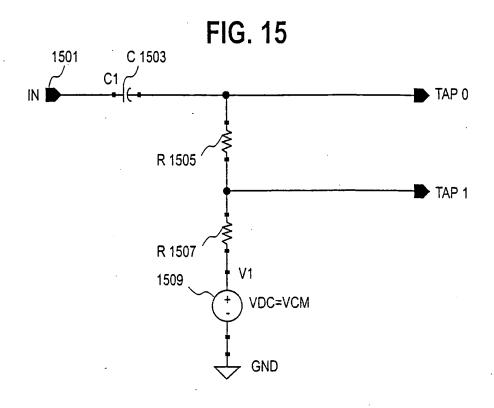
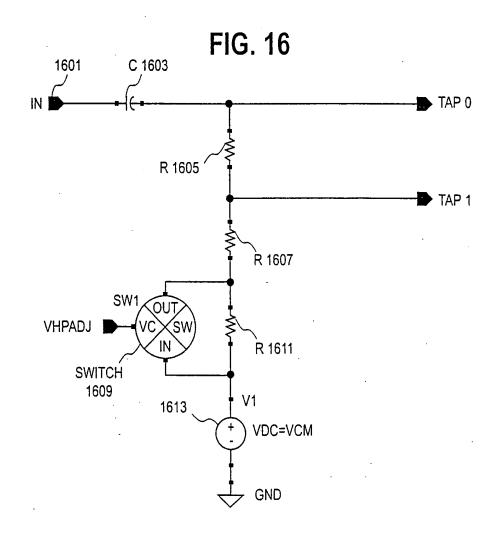


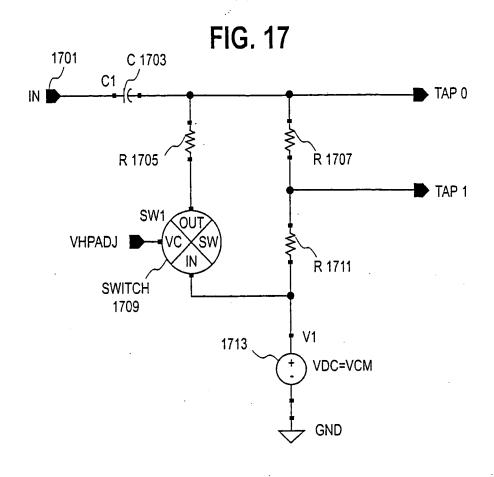
FIG. 13











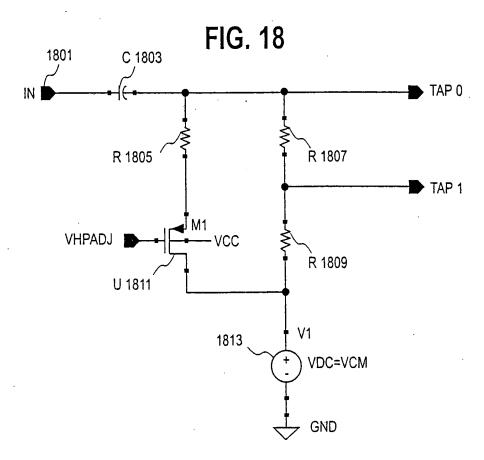
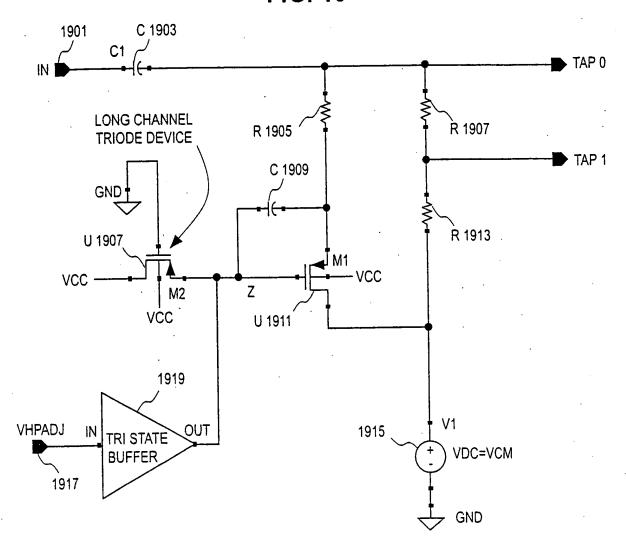
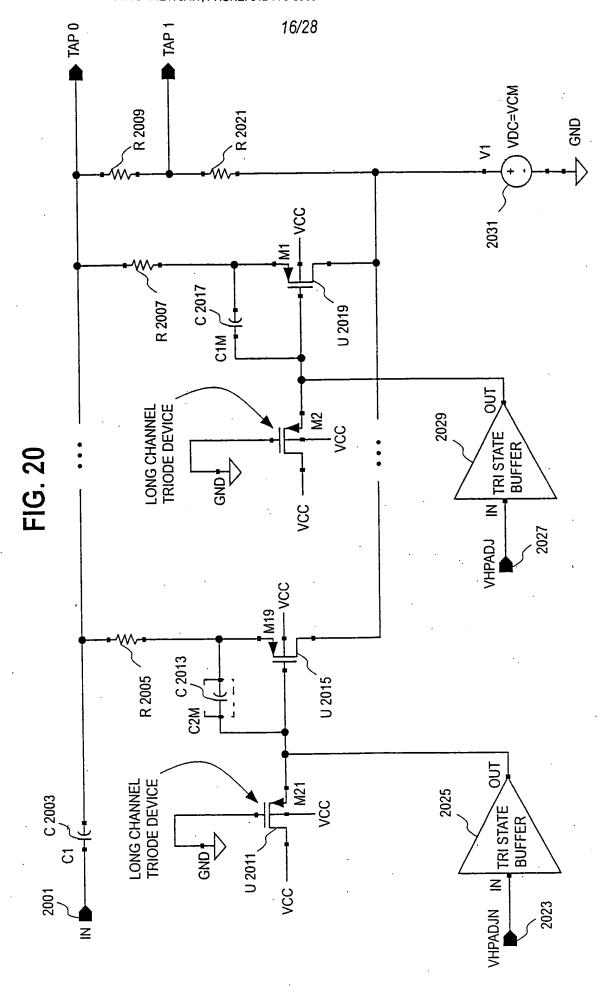


FIG. 19





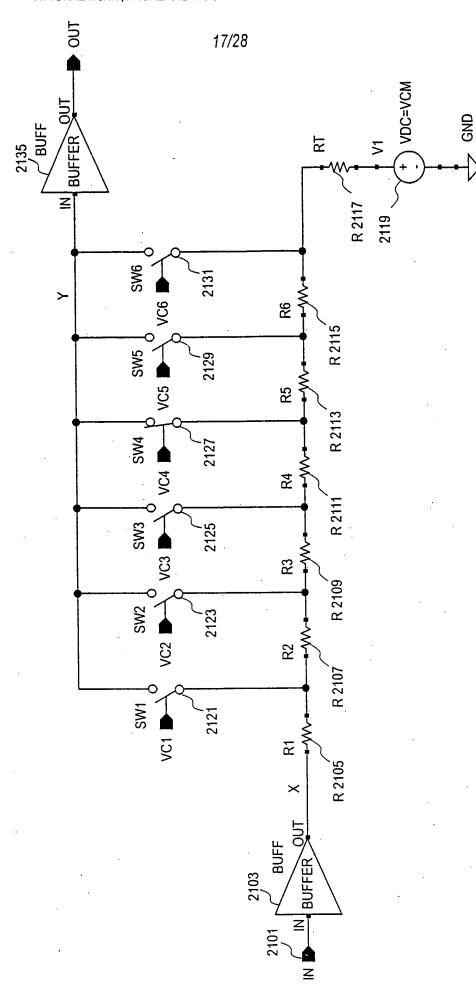
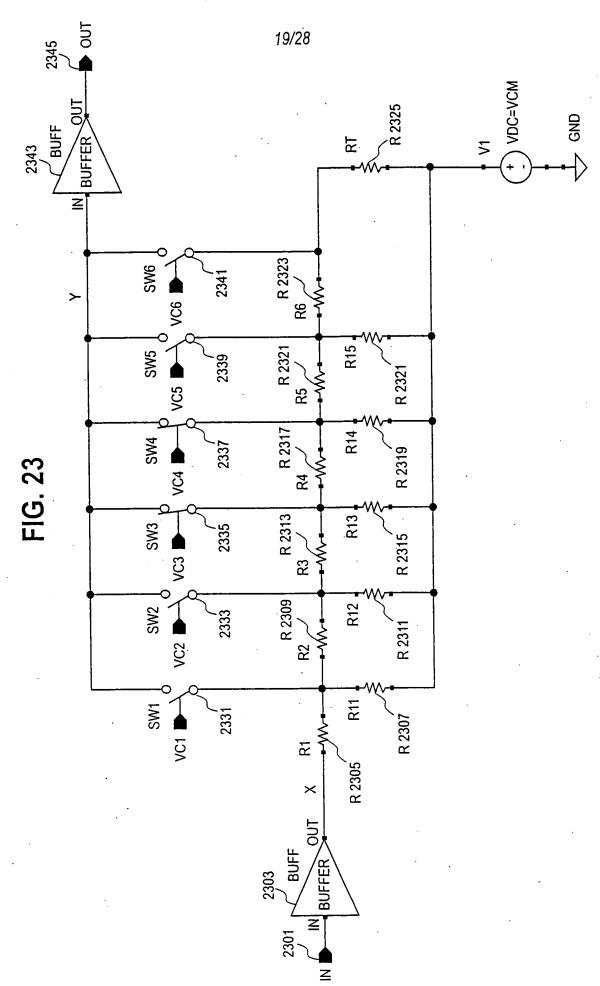


FIG. 21 PRIOR ART

FIG. 22



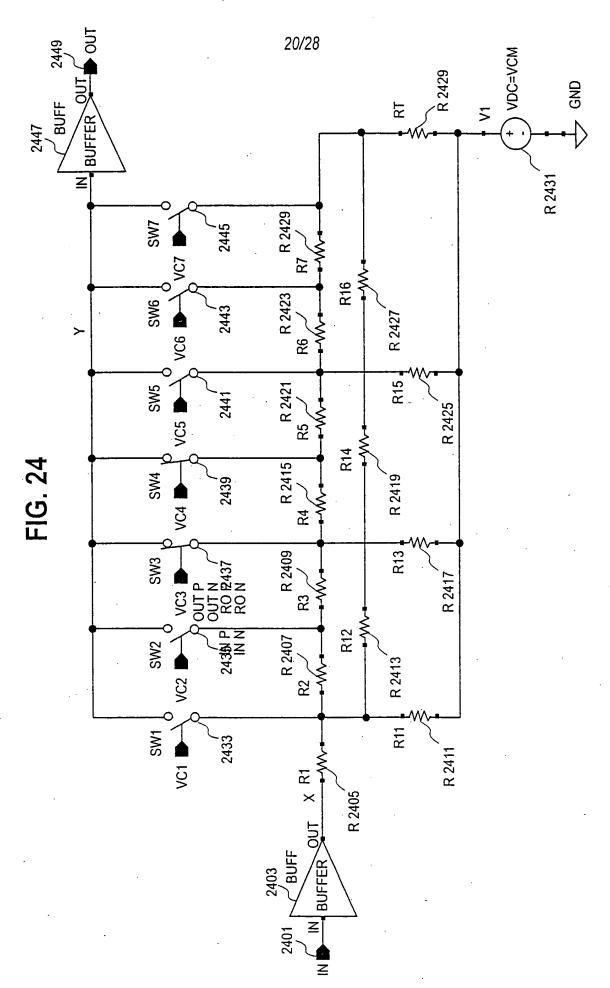
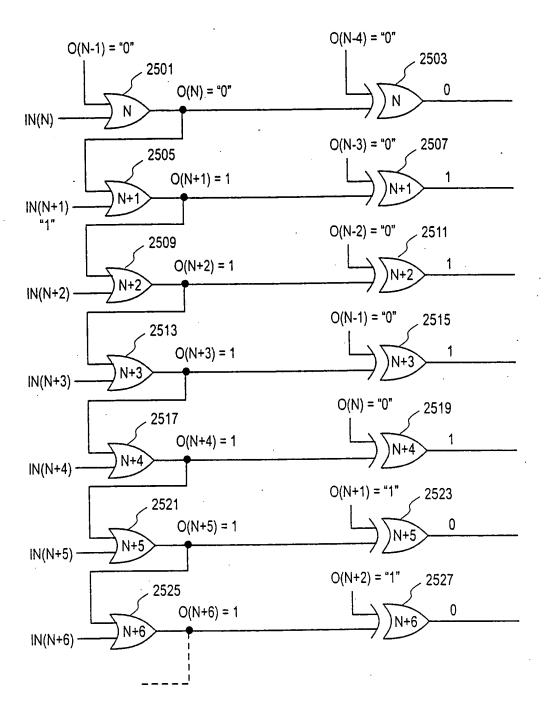


FIG. 25



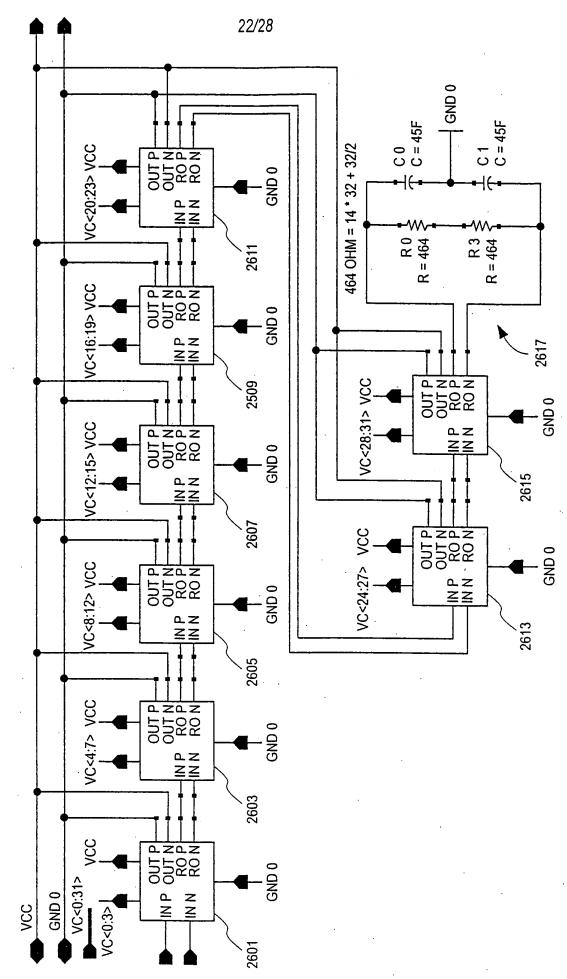


FIG. 26

FIG. 27

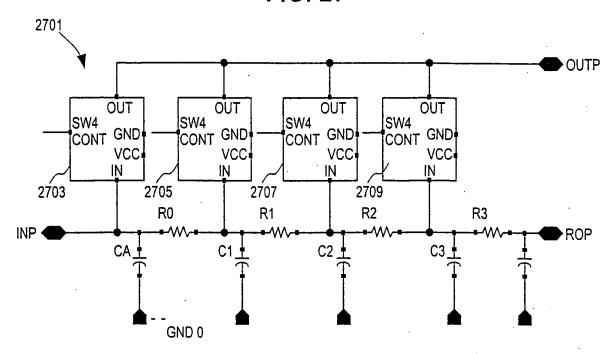
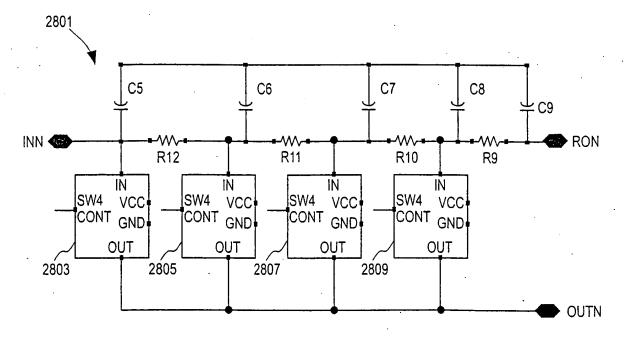
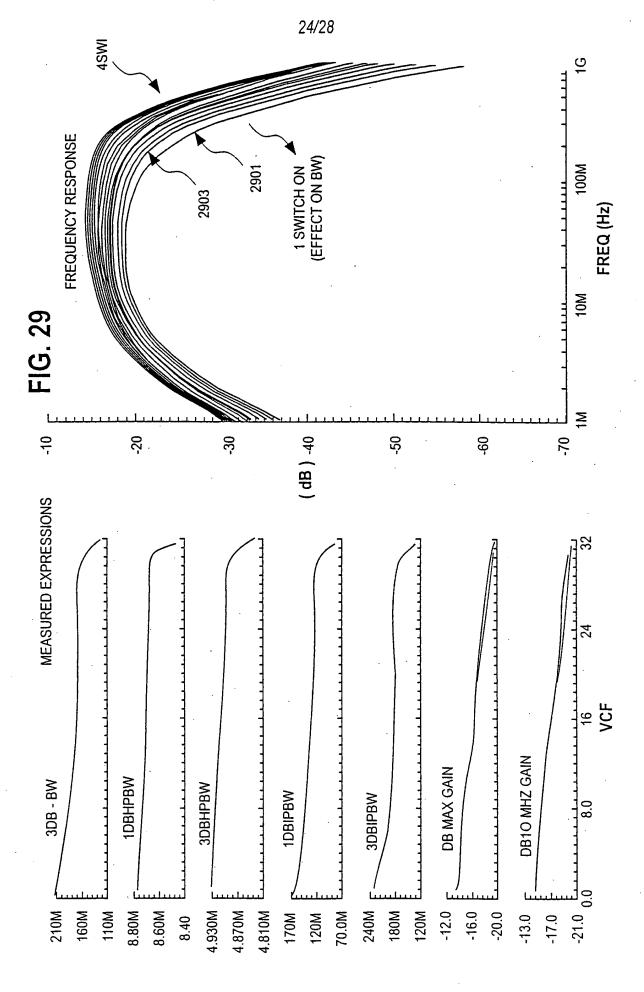
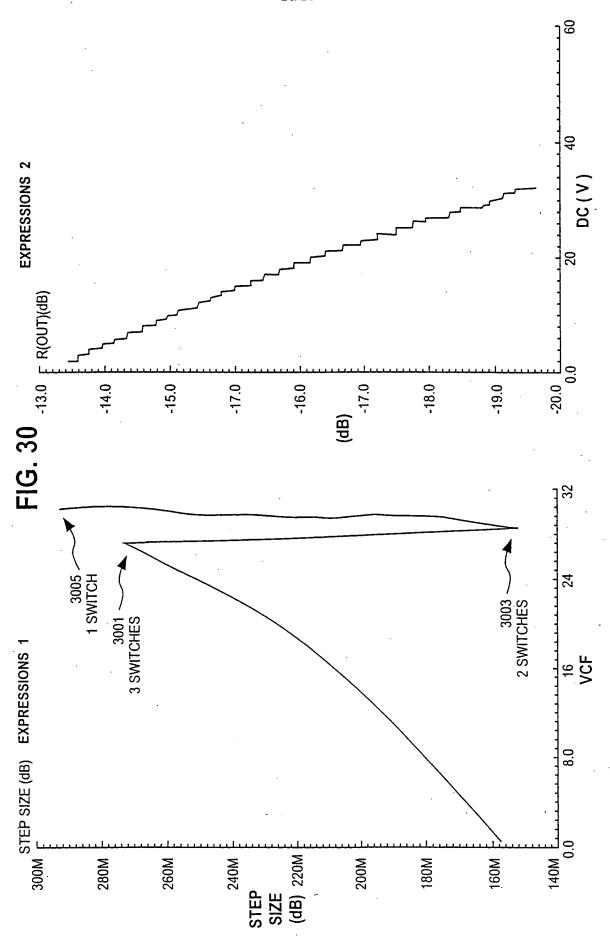


FIG. 28









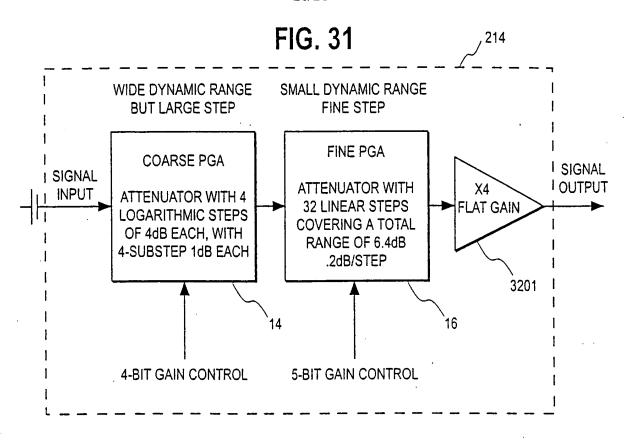
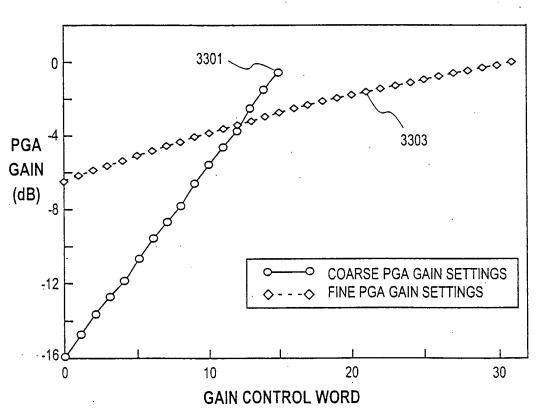
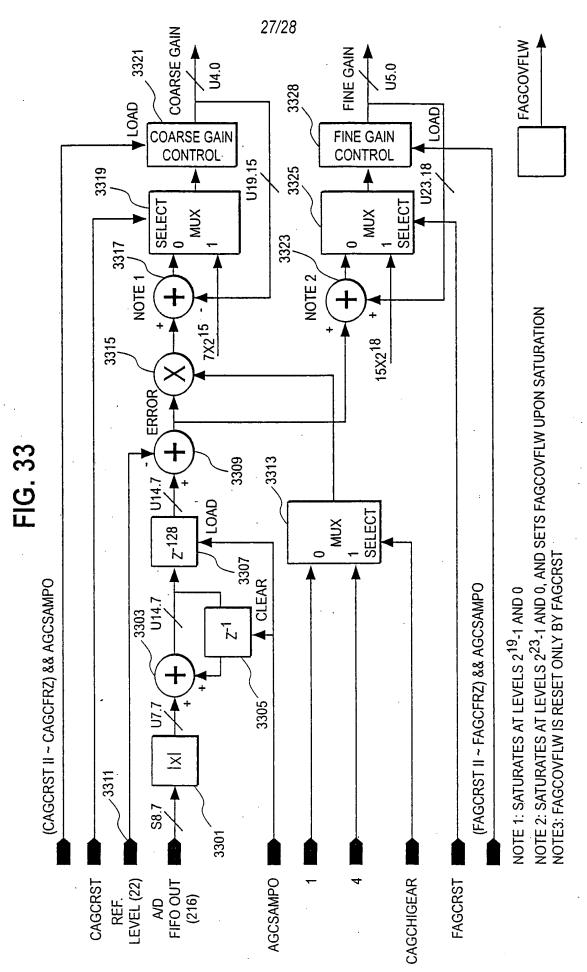


FIG. 32





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FIG. 34

CABLE LENGTH (m)	100 BASE- TX	GIGABIT, 100 OHM	GIGABIT, 85 OHM	GIGABIT, 115 OHM
0	3.691281	4.193192	4.193192	4.193192
20	3.806628	4.501316	4.362110	4.291369
40	3.877284	4.528136	4.457336	4.429949
60	3.894216	4.733644	4.695307	4.646305
80	4.055372	4.878569	4.847844	4.810019
100	4.225522	4.983545	4.991296	4.968900
120	4.357733	5.134131	5.194401	5.154263
140	4.556012	5.266919	5.380943	5.366309
160	4.764462	•	-	-

TARGET E{IXI} = A/D CLIPPING LEVEL X (E{IXI}/RMS)/(PEAK/RMS) = $127 \times 0.7979/5.2 = 20$